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Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of claims

Claim 1: (previously presented) A transmitter for receiving information from a service provider

about a service and for conveying the information to a handheld device, said transmitter

comprising:

means for defining a context in said transmitter;

means for receiving the information at said transmitter;

means for formatting the information in said transmitter into a machine-readable form to

produce a transmitted signal compatible with the handheld device and relevant to said context;

and

means for conveying said transmitted signal from said transmitter to the handheld device

located within said context, said information displayed to a user of the handheld device if the

user has previously expressed an interest in the service;

wherein said conveying means transmits a diffuse infrared signal;

wherein said machine-readable form is an XML element; and

wherein said XML element is encapsulated in an integrity element.

Claim 2: (canceled)

Claim 3: (previously presented) The transmitter of claim 1 wherein said diffuse infrared signal

has a wavelength substantially in the range of 850 nanometers to 1250 nanometers.

Claim 4: (previously presented) The transmitter of claim 1 wherein said diffuse infrared signal is

generated by modulating an electric light.

Claim 5: (canceled)

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Claim 6: (canceled)

Claim 7: (original) The transmitter of claim 1 further comprising means for receiving a reply from said handheld device.

Claim 8: (original) The transmitter of claim 1 wherein said handheld device includes a plug-in, said plug-in associated with said interest.

Claim 9: (previously presented) A handheld device operating in a context associated with a transmitter conveying a formatted signal, said handheld device comprising:

means for receiving the formatted signal, said received signal including information from a service provider offering a service, said received signal further being present when said handheld device is located within the context, the context being communicatively associated with the transmitter; and

means for extracting said information when a user of said handheld device has expressed an interest in such a service;

wherein said information includes a first XML element; and wherein said information is encapsulated in an integrity element.

Claim 10: (previously presented) The handheld device of claim 9 wherein said means for extracting includes a plug-in, said plug-in executes when said interest is expressed.

Claim 11: (previously presented) The handheld device of claim 9 wherein said means for receiving being capable of receiving a diffuse infrared signal.

Claim 12: (previously presented) The handheld device of claim 9 further comprising means for displaying at least a portion of said information to the user.

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Claim 13: (previously presented) The handheld device of claim 12 further comprising means for

accepting an input from the user, said input provided in response to said at least a portion of said

information.

Claim 14: (previously presented) The handheld device of claim 13 further comprising a means

for sending a reply, in response to said input, to the transmitter.

Claim 15: (canceled)

Claim 16: (canceled)

Claim 17: (previously presented) The handheld device of claim 9 wherein said integrity element

includes a second XML element.

Claim 18: (previously presented) The handheld device of claim 17 wherein said integrity element

further includes:

a checksum value, said checksum value representative of said information;

a size value, said size value indicating the size of said information;

a seed value, said seed value being used in computing said checksum value; and

an operator, said operator being used in conjunction with said size value and said seed

value to compute said checksum value.

Claim 19: (canceled)

Claim 20: (canceled)

Claim 21: (previously presented) The method of claim 25 further comprising the step of utilizing

a behavior of the user to establish the preference.

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Claim 22: (previously presented) The method of claim 25 further comprising the step of using a plug-in for establishing the preference.

Claim 23: (canceled)

Claim 24: (previously presented) The method of claim 28 further comprising the step of generating the diffuse infrared signal by modulating an electric light.

Claim 25: (previously presented) A method for establishing a context of a user located within a coverage area associated with a transmitter, said method comprising the steps of:

receiving information at the transmitter, the transmitter being communicatively associated with a handheld device, the information being of interest to the user of the handheld device if located within the coverage area;

formatting the information into a first XML element;

encapsulating the first XML element in a second XML element, the second XML element being an integrity element;

converting the first XML element and the integrity element into a signal; and emitting the signal to the handheld device located within the coverage area, the information displayed to the user of the handheld device if the user has established a preference at a time prior to receiving the signal;

wherein the context for the user having the handheld device and located within the coverage area has been determined.

Claim 26: (previously presented) The method of claim 25 further comprising the steps of: emitting a time element in conjunction with the first XML element and the integrity element; and

establishing a temporal context for the user using the time element.

Claim 27: (previously presented) The method of claim 26 further comprising the step of forming the time element from a time XML element.

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Claim 28: (previously presented) The method of claim 25 further comprising the step of forming the signal from a diffuse infrared signal.

Claim 29: (previously presented) A method for receiving contextual information contained in an emitted signal formatted by and received from a transmitter having a coverage area associated therewith, said method comprising the steps of:

establishing a preference for the contextual information;

receiving the emitted signal containing the contextual information formatted by the transmitter, the contextual information included in a broadcast XML element:

processing the broadcast XML element to extract the contextual information; and displaying at least a portion of the contextual information to the user located within the coverage area if the preference was established prior to receiving the broadcast XML element; wherein the contextual information is received from the transmitter.

Claim 30: (previously presented) The method of claim 29 wherein the emitted signal includes an integrity XML element encapsulating the broadcast XML element.

Claim 31: (previously presented) The method of claim 29 further comprising the step of forming the emitted signal from a diffuse infrared signal.

Claim 32: (previously presented) The method of claim 31 further comprising the step of generating the diffuse infrared signal by modulating an electric light.

Claim 33: (previously presented) The method of claim 30 further comprising the step of establishing the preference by using a plug-in.

Claim 34: (previously presented) A method of utilizing executable code in a transmitter to establish a context of a user having a handheld device and operating within a coverage area associated with the transmitter, the method comprising the steps of:

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receiving, through the executable code in the transmitter, information about a service at the transmitter, the information being of interest to the user of the handheld device if the user is located within the coverage area;

executing the executable code to format the information into an XML element for conversion into a signal; and

emitting the signal, from the transmitter, to the handheld device located within the coverage area, the information displayed to the user of the handheld device.

Claim 35: (previously presented) The method of claim 34 further comprising the step of displaying the information to the user only if the user has established a preference prior to receiving the signal.

Claim 36: (previously presented) The method of claim 34 further comprising the steps of: generating a time element; and

emitting the time element in conjunction with the XML element, the time element for use in establishing a temporal context for the user.

Claim 37: (previously presented) A method of utilizing executable code in a handheld device receiving a signal formatted by a transmitter, said method comprising the steps of:

establishing a preference for information contained in the signal, the information being formatted by the transmitter as an XML element;

receiving the signal at a communication interface communicatively associated with the handheld device;

processing the signal to extract the information contained therein; and displaying at least a portion of the information to the user located within the coverage area.

Claim 38: (previously presented) The method of claim 37 further comprising the step of establishing the preference by using a plug-in.

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Claim 39: (previously presented) The method of claim 37 further comprising the step of using the coverage area to define a context for the user receiving the emitted signal.

Claim 40: (previously presented) The method of claim 37 further comprising the step of encapsulating the XML element in an integrity XML element.

Claim 41: (previously presented) A system for providing contextually-relevant information to a user comprising:

means for receiving by the transmitter electronic raw data about a service;

means for determining by the transmitter said contextually-relevant information about said service from said electronic raw data;

means for formatting by the transmitter said contextually-relevant information into a standard machine-readable format;

means for transmitting by the transmitter said formatted contextually-relevant information;

means for receiving by a client said formatted contextually-relevant information; means for providing to the user by the client said formatted contextually-relevant information.

Claim 42: (previously presented) The system of claim 41 further comprising:

means for determining if said formatted contextually-relevant information is preferred by the user.

Claim 43: (previously presented) The system of claim 41 further comprising:

means for packaging by the transmitter said formatted contextually-relevant information into at least one broadcast signal;

means for transmitting by the transmitter said at least one broadcast signal; and means for receiving at the client said at least one broadcast signal.

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Claim 44: (previously presented) A system for providing contextually-relevant information to a user comprising:

a transmitter including:

a network interface capable of receiving electronic raw data about a service; a data formatter capable of determining the contextually-relevant information about the service from the electronic raw data, said data formatter capable of formatting the contextually-relevant information into a standard machine-readable format; and

an optical transmitter capable of transmitting the formatted contextually-relevant information: and

a client including:

an input/output module capable of receiving the formatted contextually-relevant information: and

a processing module for providing to the user by said client the formatted contextually-relevant information.

Claim 45: (previously presented) The system of claim 44 wherein said processing module is capable of determining when the formatted contextually-relevant information is preferred by the user.

Claim 46: (previously presented) The system of claim 44 wherein said transmitter further comprises:

an IR port driver capable of packaging the formatted contextually-relevant information into at least one broadcast signal, wherein said optical transmitter is further capable of transmitting said at least one broadcast signal.

Claim 47: (previously presented) The system of claim 46 wherein said client further comprises: a communication module capable of receiving said at least one broadcast signal.